An ISO 9001 : 2015 Company

DURASOL® Energi

LET'S IMPROVE THE QUALITY OF LIFE

SMART-HiQ UPS

Designed by Inteli Energi
Inteli Energi
www.intelienergi.com

- HIGHER CONVERSION EFFICIENCY / SAVE MONEY
- INSTANT CHANGEOVER / BEST SUITED FOR IT LOAD
- WITH MAINS PF CORRECTION
- GENERATOR COMPATIBLE
- ATBM TECHNOLOGY SELECTABLE TUB / LA / VRLA & GEL

www.intelenergi.com

700/12V & 1250/12V

Introduction of Company

Let's improve the quality of life!

From a modest start in early 2000 we invested a lot of time, effort and money solving the customer's problem in the areas of electricity. Today we can't imagine life without electricity. We always strive to offer a solution to our customers which can bring brightness and smiles in their life. After successfully developing market, customer awareness and establishing a few brands in more than 30 countries and having focus on green energy, we have been engaged in the areas of energy storage, renewable energy, storage products and electrical solution.

The backbone of the company are-

- Most experienced professional in the field of energy storage.
- Research and Development facility to develop new technologies in the field of energy storage.
- Having state of the art manufacturing set up in Gurugram, Haryana, India
- An ISO 9001:2015 certified company and IEC 62040:-1:2017 & CE complied products.
- Successfully exporting all our products to more than 30 countries.

SMART-HiQ UPS

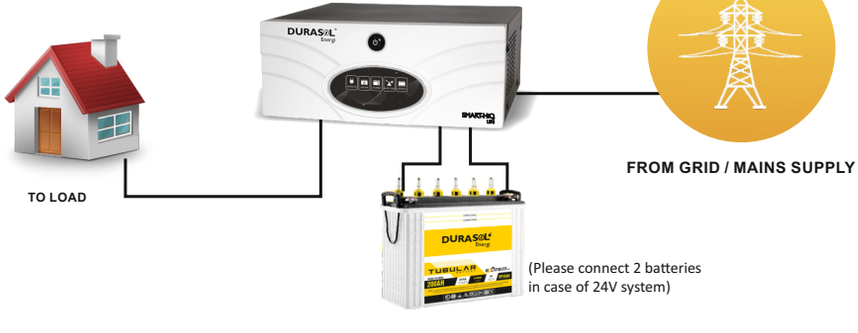
Durasol Smart-HiQ UPS are innovative design two in one product which eliminates the need to have separate Power back-up system for the sophisticated Home Appliances, LED TV, Music systems, Security systems with Camera & DVR, Computers & IT equipments (modems & routers etc).

A high-speed Micro controller is used in the UPS system that helps in real-time control of hardware modules. This intelligent Digital Smart UPS system automatically detects a power failure & switches the system to back up mode providing Digital Output that is 100% clean, regulated, completely stable and absolutely safe for running the most sophisticated and sensitive appliances silently. UPS is equipped with AC resettable circuit breaker for protection at Input Mains. The System charges the battery with three stage boost, absorption and float for optimum charging. The Battery is charged with maximum constant charging current in the boost mode. Once the battery is charged to maximum level, the charging state is changed to absorption, in this the battery maximum charge voltage level is maintained and the charging is controlled in this state, after a predefined time based on estimated battery capacity, the charging voltage is reduced to the float level and maintained.

Salient Features

- Quasi Sine Wave output ensuring noiseless operation.
- Built-in heavy duty & efficient grid charger for faster charging
- Improved input power factor during grid charging mode hence reduced electricity bills.
- Best suited for cyclic applications / longer and frequent power cut areas.
- Built-in intelligent multi stages battery management system for longer life of battery.
- Gravity profile management – best suitable for new / old aged battery.
- Dual mode of working:
  - Wide Mains input voltage range (W-UPS) for normal household/office equipments.
  - Narrow Mains input voltage range (UPS) for IT Equipments.
- High surge handling capability for mixed load.
- Protection against overload, short circuit, back feed, battery deep discharge.
- Built-in temperature controlled cooling fan for better thermal management to ensure optimal performance and life.
- DIY user friendly switches for setting various parameters (Mains voltage range/battery types/charging current).
- User Friendly Graphical LED Display.

Installation Diagram



Technical Specifications

Digital Smart UPS		HiQ700	HiQ1250
		560VA/12V	1050VA/12V
INPUT	Main Wide UPS mode Voltage range	90 ~ 290 ± 10 VAC	
	Main UPS mode Voltage range	180 ~ 265 ± 10 VAC	
OUTPUT	Voltage (Mains mode)	Same as Input	
	Frequency (Mains mode)	Same as Input (41-65 Hz)	
	Waveform (Mains mode)	Same as Input	
	Rated Voltage (Backup mode)*	230 VAC ±10%	
	Rated Frequency (Backup mode)	50Hz ± 0.5 Hz	
	Waveform (Backup mode)	Quasi Sine Wave	
BATTERY	Capacity	100Ah-250Ah	
	Type settable	Tubular, SMF/VRLA, Flat Plate or Any Local Battery Compatible	
	DC Voltage	12V	
	Battery Low Warning/ Shutdown	Warning: 10.7V, Shutdown: 10.5V (± 2% VDC) per 12V battery	
PROTECTIONS	Parameters	Low battery, Reverse battery, Battery high voltage, Overload, Output short circuit, Over temperature, Resettable Circuit Breakers/MCB at Input mains	
SETTABLE OPTIONS	Battery Charging Current Normal Charging(A)	10 ± 2 Amp	10 ± 2 Amp
	Battery Charging Current Fast Charging(A)	13 ± 2 Amp	15 ± 2 Amp
	Battery Type selection	Tubular/SMF or FLA (Flat Plate Lead Acid)	
	UPS/ WUPS Mode selection	180 ~ 265 ± 10 VAC or 90 ~ 290 ± 10 VAC	
LCD DISPLAY & ALARMS	Mains Bypass Mode	Mains LED glows continuously. Main LED blinks continuously with buzzer beeps for few seconds in case the Mains Input Circuit Breaker Trips due to overload/short circuit during Mains bypass mode	
	Charging ON (CHG.)	Charging LED blinks in Boost/Absorption modes, LED Glows continuously in float mode when battery is charged	
	Backup mode	UPS ON (Backup Mode) LED glows continuously when UPS is running on battery	
	Low Battery Warning	Low Battery LED blinks with Buzzer beeps	
	Low Battery Shutdown	Low Battery LED continuously ON with Buzzer beeps	
	Overload (O/L)	Overload LED blinks with buzzer beeps , in case of Overload/Shortcircuit/ Over temperature warnings. Overload LED glows continuously in case of Overload/ Shortcircuit/Over temperature shutdown.	
ENVIRONMENTAL	Operating Temperature	0-45°C (32-113°F)	
	Storage Temperature	0-45°C (32-113°F)	
	Humidity	0-95% RH non condensing	
PHYSICAL	Net Weight (Kg)	5.8	8.1
	Gross Weight (Kg)	6.3	8.7
	Dimensions (LxWxH) mm	278 x 264 x 118	

*Under standard operating condition of battery fully charged.
Specification are subject to change without prior notice.
For detailed technical specifications, please refer to our website.

OUR COMPLETE RANGE OF ENERGY SOLUTIONS

ETG®

DURASOL® Energi

ISO 9001 2015 CERTIFIED | CE MARK | Govt. of India MNRE APPROVED | RoHS COMPLIANT | SON | saber

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